Flash Voxstack Gateway Board with USB-TTL cable

- 1. Install USB driver: http://www.openvox.cn/pub/misc/tools/CP210x_VCP_Win_XP_S2K3_Vista_7.zip
- 2. Install tftp32.exe: http://www.openvox.cn/pub/misc/tools/tftpd32_3.51.zip
- 3. Hardware connection:



4. Connect gateway with serial port cable after installed USB driver:



Notice: Please pay attention to the COM number of serial port

5. Turn on the power, you will see output on the putty window. Login bootloader:

```
DDR Training......Done
eeprom-boot $Version: eeprom-boot_1_00_1
Autoboot from NAND in 1 seconds
U-Boot 1.1.6 (Feb 26 2013 - 09:56:06) OpenVox $Name: uboot_7_00_4 $
DRAM: 128 MB
Comcerto Flash Subsystem Initialization
Flash: 0 kB
NAND: board_nand_init nand->IO_ADDR_R =30000000
128 MiB
In:
      serial
Out: serial
Err: serial
Reserve MSP memory
Net:
     comcerto_gemac0, comcerto_gemac1
NAND read: device 0 offset 0x60000, size 0x20000
131072 bytes read: OK
### main_loop: bootcmd="run boot_flash" enter
Hit any key to stop autoboot: 3 🚽
```

Notice:When you see "Hit any key to stop autoboot",Please press "Enter" at once. Otherwise it will auto boot the system if you do not press the "Enter" in 3 seconds.

6. Execute "print" command:

You will see detailed info about the flash:



7. Set IP address of tftp server (the IP address of PC which is running tftp32.exe) and ip address of the gateway board:

	Tftpd32	by Ph. Jounin	-		x
Current Directory C:\Users\Tim\Desktop\tftpd32				Browse	
Server interface	172.16.8.86		•	Sho	ow Dir
Tftp Server DHCP server Log viewer					
peer	file	start time	prog	gress	

Set board ip: setenv ipaddr 172.16.8.87

Set server ip: setenv serverip 172.16.8.86



8. Open tftp32.exe, choose the latest firmware file you've downloaded from openvox website: http://openvox.cn/pub/firmwares/Analog%20Gateway/AnalogGateway-S-current.img



9. Set the firmware filename:

Command: setenv fsfile AnalogGateway-S-current.img



10. Execute "run updatesecond" to flash the firmware:



Notice:

Check "rootmtdblock=/dev/mtdblockX" filed, if it shows "mtdblock6", then execute "update second" to flash firmware; if "mtdblock4", then execute "update first".

@ COM7 - PuTTY	
Load address: 0x8100000 Loading: ####################################	Tftpd32 by Ph. Jounin Current Directory Current Directory Current Directory Current Directory Server Interface 17216.8.95 Tftp Server Tftp Client DHCP server Syslog server DHS server Tftp Client DHCP server Syslog server DHS server Tftp Client DHCP server Syslog server DHS server Tftp Server Server Server Tftp Server Server Server Tftp Server Server
	7312896 Bytes sent 1218816 Bytes/sec
	About Settings Help

11. Execute "run bootcmd" to reboot and login new system:

```
PCOM6 - PuTTY
done
                                                                                     .
Bytes transferred = 18845076 (11f8d94 hex)
Update system part 1
system version:1.01
NAND erase: device 0 offset 0x1880000, size 0x400000
Erasing at 0x1c60000 -- 100% complete.
OK
NAND write: device 0 offset 0x1880000, size 0x1b7d74
Writing data at 0x1a37800 -- 100% complete.
1801588 bytes written: OK
NAND erase: device 0 offset 0x1c80000, size 0x1400000
Erasing at 0x3060000 -- 100% complete.
OK
NAND write: device 0 offset 0x1c80000, size 0x1041000
Writing data at 0x2cc0800 -- 100% complete.
                                                                                    =
17043456 bytes written: OK
Update system sucess
OpenVox > run bootcmd
                                                                                     Ŧ
```

Finished! Enjoy!